

OPERATOR'S MANUAL

Low Profile Roller



IBI Catalog Number: **ROLAAUV1S**



IBI SCIENTIFIC

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A. SAFETY INFORMATION

Important Safety Information!

- ◆ Please read this manual carefully before operating your new IBI Low Profile Roller unit.
- ◆ This manual contains important operating and safety information.
- ◆ To best use the product, please read the entire manual carefully prior to use.
- ◆ To avoid possible injury, this product should only be used for its intended purpose.

B. PACKAGE CONTENTS & UNPACKING

Upon receiving this product, please verify all of the noted parts and accessories are contained in this package. Awareness of the stated cautions and warnings contained within this manual, compliance with recommended operating parameters, and maintenance requirements are important for safe and satisfactory operation.

- ◆ The Low Profile Roller unit
- ◆ O-Ring Kit (*for smaller tubes and vials*)
- ◆ Power Cords - 115V (US) and 230V (European)
- ◆ Operation Manual

Save all packing material, and these instructions, if the roller is received damaged. This roller was carefully packaged and thoroughly inspected before leaving the factory. Responsibility for its safe delivery was assumed by the carrier upon acceptance of the shipment; therefore, claims for loss or damage sustained in transit must be made with the carrier.

NOTE: Carefully inspect all items in the package to insure no items are broken or missing. If there are items broken, please inspect the package carefully for signs of shipping damage. If there is ANY sign of shipping damage, please contact the carrier and file a claim with them immediately. Contact the distributor from which you purchased the item or IBI Scientific for assistance at (800) 253-4942 or (563) 690-0484.

C. PRODUCT SPECIFICATIONS

	<u>Height</u>	<u>Width</u>	<u>Length</u>
Unit Dimensions:	2.75"	14.25"	15"
Unit Weight:	10.5lbs		
Maximum Load:	4L of Liquid		
Operation Temp.:	0° - 60°C		
Operation Speed:	2 - 38RPM		
Electrical:	Voltage: <u>100-240V</u>	Power: <u>10W</u>	Fuse: <u>Auto</u>

D. INSTALLATION

LOCATION

The Low Profile Roller is designed to operate in a reasonable, but limited, range of temperatures and conditions. It can be used in incubated and refrigerated environments, as well as ambient laboratory conditions. The operating temperature range of this unit is 0° - 60°C, and it will successfully operate in non-condensing humidity environments of up to 95% humidity with CO₂.

WARNING: Operate this unit in temperature conditions between 0° and 60°C, and in less than 95% non-condensing humidity environments.

ELECTRICAL CONNECTIONS

For your personal safety, this unit must be properly grounded. The supplied power cord is equipped with a three-prong, grounded plug, that mates to a standard three-prong grounded wall receptacle. This is done to minimize the possibility of electric shock hazard from this unit. The user should also have the wall receptacle and circuit checked by a qualified electrician to ensure the receptacle is properly grounded prior to use. Where a two-prong wall receptacle is encountered, it is the responsibility of the user to have it replaced with a properly grounded three-prong wall receptacle.

WARNING: Do not, under any circumstance, cut or remove the third ground prong from the supplied power cord. Also, do not use a three-to-two prong adaptor plug.

Determine the total amount of current presently being used by other apparatus connected to the circuit that will be used by this roller. The typical current demand for a Low Profile Roller at 115V is approximately 0.1Amps, and for a Low Profile Roller at 230V it is approximately 0.05Amps. It is critical that this added current demand, and other equipment connected to the circuit not exceed the rating of the line fuse or circuit breaker.

SPECIAL INSTRUCTIONS FOR 220/240V CUSTOMERS

220V and 240V power is typically used in Europe and many pacific countries. 220/240V customers are directed to the following information since the power cord enclosed may not have the proper wall plug supplied and user may need to supply own approved plug.

The enclosed cord bears the VDE and HAR marks and contains marked conductors as evidence that it meets the Harmonized requirements of the Cenelic countries. The individual conductors have a cross sectional area of 2.25mm. The detachable cord must be connected to a plug with the mark of approval used by an official agency for the location of use. Please refer to the following chart to assist in securing the correct wall plug for this unit's application.

Certification Markings					
Country	Agency	Certification Mark	Country	Agency	Certification Mark
Australia	SA		Italy	IMQ	
Austria	OVE		Netherlands	KEMA	
Belgium	CEBEC		Norway	NEMKO	
Denmark	DEMKO		Spain	AEE	
Finland	FIMKO		Sweden	SEMKO	
France	UTE		Switzerland	SEV	
Germany	VDE		UK	ASTA	
Ireland	NSAI				

FUSE

The Low Profile Roller does not use a conventional glass or ceramic fuse. It has an internal, resettable fuse which, when a failure (such as a power surge or short circuit) occurs, the PC Board reverts to high impedance to block the flow of electricity. There is no mechanical way to reset this internal fuse. To reset the internal fuse, unplug the unit and wait approximately 3 minutes for the issue to clear. There is nothing more required.

TRANSPORT

Always unplug the power cord from the wall receptacle prior to moving the roller. When moving the Low Profile Roller unit from one location to another, lift and carry the roller by grasping underneath the base of the unit.

E. OPERATION

Your new Low Profile Roller is shipped fully assembled and ready for use. To properly break-in the shaker, plug the power cord into the wall receptacle and run the shaker for 1 to 2 hours at half speed, with the speed control dial at roughly the 12 o'clock position.

WARNING: Do not exceed the maximum load of 4L!

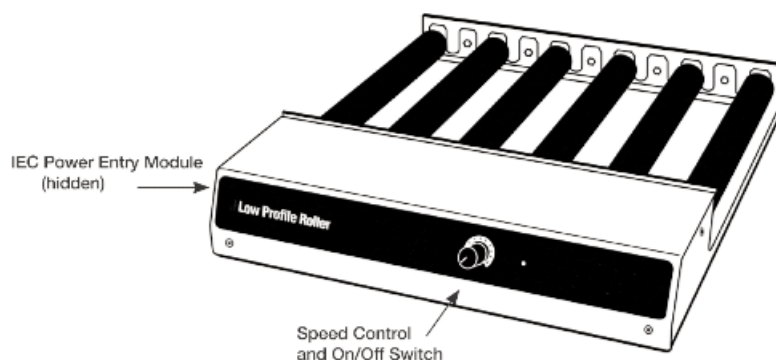
REMOVAL OF ROLLERS FOR CLEANING OR REPOSITIONING

The Low Profile Roller is designed for easy inspection, cleaning, and maintenance without special training, and may be performed by any personnel. The stainless steel spring at the back of the roller holds each roller in position. To remove a roller, press the spring back, above the roller, and lift up on the roller. Detach the front of the roller from the hex head drive shaft, and remove. Reverse this process for installing the rollers back into place. Clean the rollers with a cloth dampened with a solution of mild detergent, then rinse by wiping with a cloth dampened with water.

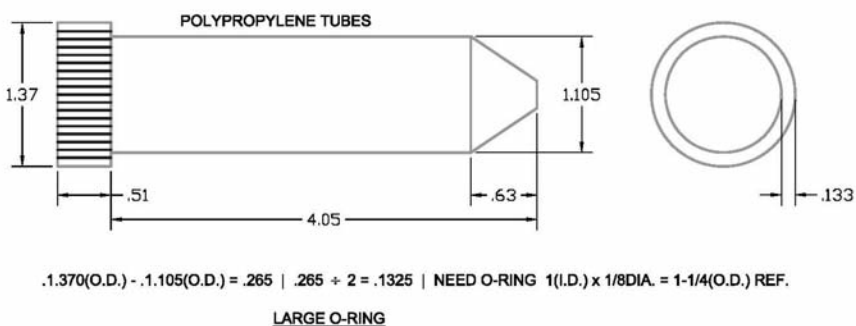
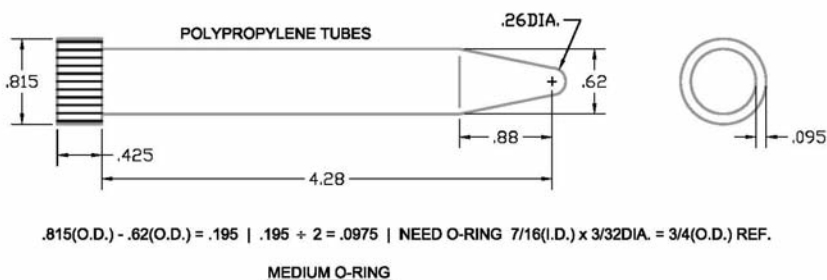
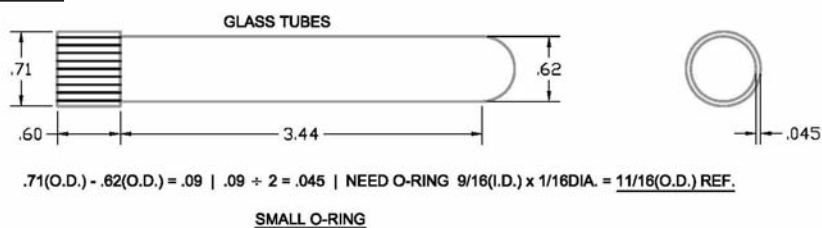
WARNING: Always unplug the roller unit while removing or inserting the rollers in place.

USE OF SUPPLIED O-RINGS

Your new Low Profile Roller is supplied with a package of 3 different o-rings to be used to level tubes and vials with caps larger than the tube or vial itself. See the chart on the next page showing which o-ring to use with each popular tube or vial size. To properly use, install the o-ring onto the tube by sliding the o-ring onto the tube or vial approximately 1". Examine tube or vial on unit to ensure the tube or vial is sitting level on the unit.



USE OF SUPPLIED O-RINGS



F. APPLICATIONS

- ♦ **Cell Culture:** The six rollers supplied with the roller unit will rotate three large (850cm) cell culture bottles at a speed of 0.5 to 9.5RPM allowing excellent cultivation or stress of adherent cells. Rollers can be adjusted closer together, or additional rollers can be purchased to accommodate smaller tubes.
- ♦ **Western, Northern, & Southern Blotting Applications:** The IBI Low Profile Roller offers the researcher an economical alternative to the dedicated, rotisserie style dry chambers for hybridization and washing filters. The roller bottle technique for hybridization increases the sensitivity of reactions since the filter is completely immersed and drained during each revolution of the bottle, and all reactions are complete and uniform.
- ♦ **Antibody Staining:** Save antibody solution by cutting your western membranes into strips and inserting them inside a 15ml or 50ml tube. Only 2.5ml of antibody solution is required inside the tube to completely saturate the membrane. As the tube turns on the roller, a wave of antibody solution rolls over the membrane providing excellent staining with no background. By adding five additional rollers the Low Profile Roller will accommodate up to twenty tubes (10ml-50ml)m allowing for high throughput staining.
- ♦ **Blood Products and Small Tubes:** The six rollers supplied with the roller unit can be easily moved together to accommodate small tubes and bottles, making it ideal for mixing blood samples. The addition of five extra rollers (sold separately) allows the user to roll up to 20 small tubes, ranging in size from 10ml to 50ml. Each unit comes complete with a bag of assorted o-rings that are placed on the tubes to ensure they are level while running, and remain in place.

G. TROUBLE SHOOTING

In the unlikely event a problem develops with your Low Profile Roller, do NOT attempt to perform any service on the unit without first contacting IBI SCIENTIFIC. Unauthorized servicing may void the warranty. IBI will readily supply information regarding trouble shooting minor issues upon request.

In any correspondence with IBI SCIENTIFIC concerning your Low Profile Roller please refer to the appropriate MODEL NUMBER and SERIAL NUMBER, located on the specplate on the rear plate of the unit.

H. MAINTENANCE OF UNIT

Care must be observed in the handling of this unit.

DO NOT expose the unit to temperatures above 60°C

DO NOT expose the unit to organic solvents

DO NOT clean the unit with abrasive cleaners or cleaning aids.

Use mild cleaning solution (dish soap recommended) for routine cleaning. For heavier dirt, hand wash with soft cloth. In most cases, a rinse in deionized water is sufficient to clean the unit.

I. ACCESSORIES & REPLACEMENT PARTS

LOW PROFILE ROLLER ACCESSORIES

<u>Catalog #</u>	<u>Description</u>
ACCRL0001	Single Platform Stack <i>(to accommodate one additional roller unit)</i>
ACCRL0002	Double Platform Stack <i>(to accommodate two additional roller units)</i>

LOW PROFILE ROLLER REPLACEMENT PARTS

<u>Catalog #</u>	<u>Description</u>
ACCRLSR10	Replacement Rollers <i>(sold separately)</i>
ACCRLRN30	Replacement O-Ring Packet <i>(for leveling 10ml to 50ml tubes)</i>
COMCD0002	Replacement Flat Power Cord - 115V
COMCD0004	Replacement Power Cord - 220V (European)
COMCD0005	Replacement Power Cord - 220V (UK)
ROLBD0005	Replacement Roller P.C. Boards <i>(2 board set)</i>
ROLMT0001	Replacement Roller Motor <i>(12VDC)</i>



The Low Profile Roller units with Single and Double Stack accessory kits installed. See [ACCRL0001](#) for kit, or [ACCRL0002](#) for accessory kits.



J. LIMITED WARRANTY

Our limited warranty for all life science equipment is one (1) year to the original buyer only (non-transferable) from the original date of purchase.

Our limited warranty as noted above extends to the direct end user of IBI Scientific products only. This warranty is in lieu of all other warranties whether expressed or implied, including warranties of merchantability or fitness for a particular purpose. In no situation shall IBI Scientific be liable for any incidental or consequential damages of any kind, even though IBI Scientific has been advised of the possibility of such damages arising out of, or resulting from, the products or the use or modification thereof or due to the breach of this warranty or any other obligation of IBI Scientific to the customer, whether based on contract, tort, or any other legal theory. In no such event shall IBI Scientific be liable for damages which exceed the purchase price of any products.

For further assistance please contact IBI Scientific Technical Service at (800) 253-4942, (563) 690-0484 or visit us on the web at www.ibisci.com.

